CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-07-11-05** **Date: 13-07-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub division, BBMP, Bangalore.
Address	:	Kodigehalli Sub division, BBMP, Bangalore.
Project Name	:	Development of parks in Ward no.8, Kodigehalli.
Agency	:	N. Venkata Reddy, #92, 7th main road, 4th cross, J. C. Nagara, Mahalaxmipuram (P), Bangalore-560086
Customer's Reference	:	BBMP/EE/BTP/WO/61/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-07-17
Sample ID No	:	2017-07-11-05/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	12-07-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.15	_
2	Finess by Air permeablity method (m^2/kg, Min)	271.6	225m^2/kg, Min
3	Density (gm/cc)	3.18	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	290 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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****End of Report****

CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-07-11-05** **Date: 09-08-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub division, BBMP, Bangalore.
Address	:	Kodigehalli Sub division, BBMP, Bangalore.
Project Name	:	Development of parks in Ward no.8, Kodigehalli.
Agency	:	N. Venkata Reddy, #92, 7th main road, 4th cross, J. C. Nagara, Mahalaxmipuram (P), Bangalore-560086
Customer's Reference	:	BBMP/EE/BTP/WO/61/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-07-17
Sample ID No	:	2017-07-11-05/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	12-07-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.0N/mm^2	Not less than 53 N/mm^2

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Assistant Executive Engineer
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Bangalore.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-07-11-05** **Date: 14-07-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub division, BBMP, Bangalore.
Address	:	Kodigehalli Sub division, BBMP, Bangalore.
Project Name	:	Development of parks in Ward no.8, Kodigehalli.
Agency	:	N. Venkata Reddy, #92, 7th main road, 4th cross, J. C. Nagara, Mahalaxmipuram (P), Bangalore-560086
Customer's Reference	:	BBMP/EE/BTP/WO/61/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	11-07-17
Sample ID No	:	2017-07-11-05/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-07-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1223	1223	8.2	91.8	90-100
3	20 mm	5972	7195	48.0	52.0	30-70
4	10 mm	5575	12770	85.1	14.9	10-35
5	4.75 mm	1873	14643	97.6	2.4	0-5
6	Pan	357	15000	100.0	0	---

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CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-07-11-05** **Date: 14-07-17**

Sample ID No : 2017-07-11-05/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.1	
3	Specific Gravity	2.67	_
4	Bulk Density(Loose) (Kg/l)	1.48	_
5	Bulk Density(Compacted) (Kg/l)	1.51	_
6	Water Absorption(%)	0.23	_

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-07-11-05** **Date: 14-07-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub division, BBMP, Bangalore.
Address	:	Kodigehalli Sub division, BBMP, Bangalore.
Project Name	:	Development of parks in Ward no.8, Kodigehalli.
Agency	:	N. Venkata Reddy, #92, 7th main road, 4th cross, J. C. Nagara, Mahalaxmipuram (P), Bangalore-560086
Customer Reference	:	BBMP/EE/BTP/WO/61/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-07-17
Sample ID No	:	2017-07-11-05/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-07-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	384	384	7.7	92.3	90-100
3	10 mm	2137	2521	50.4	49.6	25-55
4	4.75 mm	2228	4749	95.0	5.0	0-10
5	Pan	251	5000	100	0	–

AGW-8

Assistant Executive Engineer
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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-07-11-05** **Date: 14-07-17**

Sample ID No : 2017-07-11-05/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.2	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.55	_
5	Bulk Density(Compacted) (Kg/l)	1.59	_
6	Water Absorption(%)	0.25	_
7	Aggregate crushing Value(%)	25.2	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Authorized Signature
Quality Manager

End of Report

CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-07-11-05** **Date: 14-07-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub division, BBMP, Bangalore.
Address	:	Kodigehalli Sub division, BBMP, Bangalore.
Project Name	:	Development of parks in Ward no.8, Kodigehalli.
Agency	:	N. Venkata Reddy, #92, 7th main road, 4th cross, J. C. Nagara, Mahalaxmipuram (P), Bangalore-560086
Customer's Reference	:	BBMP/EE/BTP/WO/61/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-07-17
Sample ID No	:	2017-07-11-05/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	11-07-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	28	28	2.8	97.2	90-100	90-100	90-100	95-100
3	2.36 mm	183	211	21.1	78.9	60-95	75-100	85-100	95-100
4	1.18 mm	188	399	39.9	60.1	30-70	55-90	75-100	90-100
5	600 micron	247	646	64.6	35.4	15-34	35-59	60-79	80-100
6	300 micron	218	864	86.4	13.6	5-20	8-30	12-40	15-50
7	150 micron	77	941	94.1	5.9	0-10	0-10	0-10	0-15
8	Pan	59	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-07-11-05** **Date: 14-07-17**

Sample ID No : 2017-07-11-05/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.35	_
2	Specific Gravity	2.69	_
3	Material finer than 75 micron(%)	5.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-07-25-03** **Date: 26/07/2017**

Customer : Assistant Executive Engineer, Kodigehalli Sub division, BBMP, Bangalore.

Address : Kodigehalli Sub division, BBMP, Bangalore.

Project Name : Development of parks in Ward no.8, Kodigehalli.

Agency : N. Venkata Reddy, #92, 7th main road, 4th cross, J. C. Nagara, Mahalaxmipuram (P), Bangalore-560086

Customer's Reference : BBMP/EE/BTP/WO/61/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory.

Date of Receipt : 25-07-17

Sample ID No : 2017-07-25-03/01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	19/07/2017	26/07/2017	151.36 X 149.84 X 150.31	22680	8.268	290.3	12.8	
2	PCC	M15	19/07/2017	26/07/2017	151.89 X 151.29 X 148.10	22979	8.189	273.5	11.9	12.4
3	PCC	M15	19/07/2017	26/07/2017	151.21 X 150.82 X 148.47	22805	8.258	285.1	12.5	

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-07-25-03** **Date: 16/08/2017**

Customer : Assistant Executive Engineer, Kodigehalli Sub division, BBMP, Bangalore.

Address : Kodigehalli Sub division, BBMP, Bangalore.

Project Name : Development of parks in Ward no.8, Kodigehalli.

Agency : N. Venkata Reddy, #92, 7th main road, 4th cross, J. C. Nagara, Mahalaxmipuram (P), Bangalore-560086

Customer's Reference : BBMP/EE/BTP/WO/61/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-07-17

Sample ID No : 2017-07-25-03/02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	19/07/2017	16/08/2017	149.48 X 150.77 X 148.56	22537	8.271	365.1	16.2	16.4
2	PCC	M15	19/07/2017	16/08/2017	151.82 X 151.58 X 149.47	23013	8.194	377.4	16.4	
3	PCC	M15	19/07/2017	16/08/2017	151.63 X 149.81 X 150.32	22716	8.266	379.4	16.7	

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-07-28-02** **Date: 29/07/2017**

Customer : Assistant Executive Engineer, Kodigehalli Sub division, BBMP, Bangalore.

Address : Kodigehalli Sub division, BBMP, Bangalore.

Project Name : Development of parks in Ward no.8, Kodigehalli.

Agency : N. Venkata Reddy, #92, 7th main road, 4th cross, J. C. Nagara, Mahalaxmipuram (P), Bangalore-560086

Customer's Reference : BBMP/EE/BTP/WO/61/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-07-17

Sample ID No : 2017-07-28-02/01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	22/07/2017	29/07/2017	150.77 X 149.45 X 148.83	22533	8.229	389.8	17.3	17.1
2	PCC	M20	22/07/2017	29/07/2017	151.28 X 150.52 X 149.68	22771	8.196	380.3	16.7	
3	PCC	M20	22/07/2017	29/07/2017	151.89 X 150.67 X 149.51	22885	8.247	393.6	17.2	

Note:

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-07-28-02** **Date: 19/08/2017**

Customer : Assistant Executive Engineer, Kodigehalli Sub division, BBMP, Bangalore.

Address : Kodigehalli Sub division, BBMP, Bangalore.

Project Name : Development of parks in Ward no.8, Kodigehalli.

Agency : N. Venkata Reddy, #92, 7th main road, 4th cross, J. C. Nagara, Mahalaxmipuram (P), Bangalore-560086

Customer's Reference : BBMP/EE/BTP/WO/61/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-07-17

Sample ID No : 2017-07-28-02/02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	22/07/2017	19/08/2017	148.44 X 149.73 X 150.84	22226	8.177	471.2	21.2	21.0
2	PCC	M20	22/07/2017	19/08/2017	151.89 X 148.58 X 149.62	22568	8.159	469.4	20.8	
3	PCC	M20	22/07/2017	19/08/2017	150.37 X 151.73 X 149.95	22816	8.207	481.4	21.1	

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